

## Enzaquor™ Solution: Low-Dose Sulfide Prevention

### GENERAL INFORMATION

Enzaquor™ solution is a low-dose, cost-effective solution that prevents hydrogen sulfide (H<sub>2</sub>S) generation before it occurs. It is comprised of a blend of non-hazardous, signal blocking compounds which mimic the mechanisms of active biofilm dispersal. This technique is called quorum quenching. Quorum quenching effectively prevents bacteria in the collection system from maintaining the biofilm state.

Enzaquor solution treatment consists of two products: Enzaquor DE and Enzaquor CN solution. Enzaquor DE solution contains cell signaling chemicals (CSCs) designed to induce quenching and thus, dispersal of the biofilm. This accounts for up to a 90% reduction in H<sub>2</sub>S production. Enzaquor CN solution is an aqueous blend of calcium nitrite which acts as a metabolic inhibitor of sulfate-reducing bacteria, preventing their feeding ability in the remnant biofilm.

### CROSS SECTION VIEW OF REAL LIFE SLIME LAYER IN COLLECTION PIPE



Before Enzaquor Solution Dosing



After Enzaquor Solution Dosing



### FEATURES & BENEFITS

- Prevents hydrogen sulfide generation to reduce odors and corrosion
- Minimizes the accumulation of fats, oils and grease in collection and treatment systems
- Reduces influent phosphorous levels at the treatment plant
- Fraction of the dose of other solutions
- Ease of operation with minimal safety or maintenance requirements
- Small footprint
- Optimized dosing equipment

### APPLICATIONS

- Odor and corrosion control
- Long retention timelines
- Fats, oils, and grease blockages
- Single line or limited contributing lines
- High feed rate applications with other solutions
- Lines with sensitive downstream areas (WWTP, etc.)
- Lines prone to air locking

# Product Specifications

## ENZAQUOR™ DE SOLUTION

|  |   |
|--|---|
| <b>Description</b>                         | Non-hazardous organic solution of proprietary ingredients for odor, corrosion, and grease control   |
| <b>Density</b>                             | 8.3-9.2 pounds per gallon   |
| <b>Specific Gravity</b>                    | 1.00-1.10 @68°F   |
| <b>pH</b>                                  | 5-7   |
| <b>Freezing/<br/>Crystallization Point</b> | 32°F (0°C)  |
| <b>Appearance</b>                          | Reddish brown to beige liquid   |
| <b>Transport Information</b>               | Contains no hazardous substances listed as Dangerous Goods. Enzaquor DE solution is exempt from Federal DOT, IMDG, and IATA placard requirements. |

## ENZAQUOR™ CN SOLUTION

|  |   |
|--|---|
| <b>Description</b>                         | Aqueous solution of stable, inorganic salts for biological enhancement  |
| <b>Concentration</b>                       | 30-40% anhydrous calcium nitrite  |
| <b>Density</b>                             | 10.5-11.1 pounds per gallon @ 68°F  |
| <b>Specific Gravity</b>                    | 1.26-1.33 @ 68°F  |
| <b>pH</b>                                  | 8-10  |
| <b>Freezing/<br/>Crystallization Point</b> | 4°F (-16°C)   |
| <b>Appearance</b>                          | Light to dark yellow  |
| <b>CERCLA Listing</b>                      | Contains no CERCLA listed hazardous substances  |
| <b>Equipment Requirements</b>              | Compatible with storage tanks, piping, and plumbing equipment made of polyethylene, PVC, FRP, or stainless steel. |

The product specifications are general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products.

## STORAGE AND HANDLING

Enzaquor solution contains no CERCLA listed hazardous substances. Enzaquor DE solution is exempt from Federal DOT, IMDG, and IATA placard and transporting requirements. It can be stored outdoors in ambient conditions.

Enzaquor CN solution should be protected from sunlight. Follow all local, state, and federal regulations for storing and disposal. Do not dump on the ground or release into any body of water.

See Safety Data sheet for additional safety and handling information before storing or handling Enzaquor solution.

## PACKAGING

Enzaquor DE solution is normally supplied in 55-gallon drum quantities, but can also be supplied in 265-gallon totes. Enzaquor CN solution is supplied in bulk or partial loads.

For further information, please contact your Evoqua Water Technologies representative.



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